

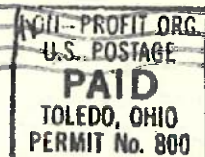
THE MIDWEST FACETER

AN EDUCATIONAL PUBLICATION OF THE MIDWEST FACETERS GUILD



VOLUME 5, NO. 5
OCTOBER, 1984

THE MIDWEST FACETER
11630 S. GERA ROAD
BIRCH RUN, MICH, 48415



DATED MATERIAL



HOMEcoming MEETING OCTOBER 27, 1984 MT. CLEMENS RECREATION CENTER
MT. CLEMENS, MICH.

THE MIDWEST FACETER
AN EDUCATIONAL PUBLICATION OF THE MIDWEST FACETERS GUILD

OFFICERS

William J. Horton, President
Ted F. Engel, Vice-president
Bernard Bush, Secretary
Lawrence Murray, Treasurer
Elery Holt, Acting Treasurer

Committee Chairpersons

Education - Dorothy Loyd
Membership - Arthur Kalinski
Historian - Vivian Randall
Show - Harold "Arizona" Rice
Rules - Kathleen Myers

BOARD MEMBERS

Bernard Bush
Ted F. Engel
William J. Horton
Dorothy Loyd
Ernie Michaud
David B. Miller
Lawrence Murray
Edward C. Myers
Harold "Arizona" Rice

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ATTENTION GUILD MEMBERS

Art Kalinski, your Membership Chairman, keeps the mailing list up to date. Use the form below if your name or address contains errors or if you are renewing your membership. New members may also use this form to join.

Tear off

Tear off

Tear off

FACETERS GUILD APPLICATION FORM

NAME _____

COMPLETE ADDRESS _____

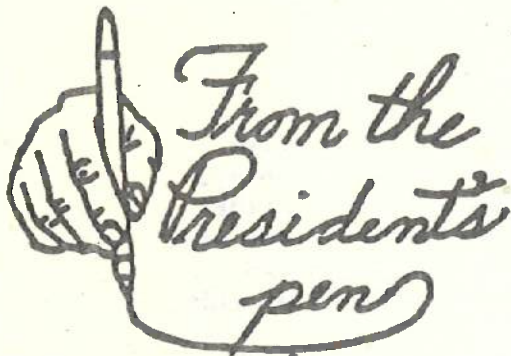
TELEPHONE _____

The fiscal year is Jan. 1 through Dec. 31st. Dues are \$5.00 per year or portion of a year. Make checks payable to Midwest Faceters Guild and send to Arthur Kalinski, 3357 Doremus, Hamtramck, Mi. 48212.

ZIP _____

LETS GROW AND GLOW, LETS BE ALIVE.

LETS BE OUR VERY BEST, IN 1985.



This has been our very best year for growing. This has also been our best year for reaching out to other areas in the Midwest. We have had demonstration booths in Chicago, Milwaukee, Cleveland, Detroit, and Cincinnati. We've held seminars in several of these. We've had meetings in London, Ontario, and at the Lizzardo

museum in Chicago this year. We are reaching out to the farther areas of the Midwest. We are nearing 400 members. This has been a very good year.

Thru death and thru disorder, we have also lost some very good friends, fellow faceters. For all of the good, there will always be some bad. There will always be a new goal however. There must always be a goal to achieve. There will always be a necessity to continue forward.

I would challenge each of you as our year comes to an end. I would challenge each of you to make a commitment to be even better this next year. Reach out and help someone to be better. Teach someone the skills that you have. Trade ideas and knowledge with someone else.

We are receiving articles from people for our Bulletin. Articles from Faceters from the far reaches of our country, let alone from just the Midwest. This is very good! Sometimes we are into a routine that we think we cannot improve. New ideas from the experience of others is always worth a try. KEEP THIS UP!

Our SHOW in MAY, 1985 is rapidly approaching. Since the passing of Helen Murray, Harold Rice is now the SHOW CHAIRPERSON. He will need all of the help and support that he can get. Don't wait. Make a commitment to enter something for the show. Enter a case, enter a single stone, enter whatever you can. Help make this the very best show that we have ever had. We need more case displays. We need help to set up the show. We need help in advertising especially. This is your Guild, and your show. Make it something special.

Our HOME COMING meeting OCTOBER, 27, 1984 is our election meeting. There will be three new Board Members elected. Make sure you participate. Be there! This meeting will determine part of our destiny for the coming years. We need more participation in the business of the Guild. I hope to see you in Mount Clemens.

SANDILANDS LAW

ANY FREE TIME WHICH UNEXPECTEDLY
BECOMES AVAILABLE WILL BE WASTED.

William J. Horton
President.

IN MEMORY OF HELEN MURRAY

Helen was, by far, the driving force, that made the Midwest Faceters Guild what it is today. I used to tease Helen by referring to her as the "WHIP". She understood me, and knew in my own way, I was giving her a compliment. I wish I could have known Helen for a much longer part of my life.

I would like to quote Mr. Boniface Duritsky. Mr. Duritsky was a friend of Helen Murray and gave the eulogy at Helen's funeral. "She was a "PEOPLE" person". She was an educator, always a friend, an organizer of the first degree, tireless in efforts to achieve and see others achieve, a mother, a wife, and especially liked to work with younger people". Helen never knew any boundaries in respect to individual efforts.

In her last year, as sick as she was, she still "gave" of herself. She researched and "wrote" the contract of a scholarship. The Geology Scholarship at the University of Toledo is now a lasting tribute. A tribute to Helen and the Toledo Gem and Rockhound Club.

It will be impossible to replace Helen Murray. We shall all suffer this loss. We shall also never forget Helen. We are all stronger for the fact of having known her.

W. J. Horton

IN MEMORY OF GEORGE WESTCOTT

We have lost another friend, a teacher, and a competitor, as well as a faceter.

George was a charter member of the Midwest Faceters Guild. He was a member of our first Board of Directors.

George was one of first successful competitors. He also could be seen at most of the local shows, demonstrating his talents, and spreading the word about faceting. George lived in the Lansing, Michigan area, gave lessons in his home. He moved to Arizona in 1982. He was again giving lessons.

We shall all certainly miss George Westcott.

William J. Horton





BOARD MEETING

The Board Meeting of the Midwest Faceters Guild was called to order at 8:35 A.M. in Bill Horton's van on Highway 94 while on the way to Lizzadro's Museum in Elmhurst, Illinois. Those present were President Horton, Ted Engle, Bernard Bush, Elery Holt, Harold Rice, Dorothy Loyd, David Miller and Ed Myers. Kathleen Myers and Frances Bush were guests.

The minutes were accepted as read through a motion made by Elery Holt and seconded by Harold Rice.

Treasurer, Elery Holt reported a balance of \$5,357.40. David Miller made a motion, "To accept the report as read." Bernard Bush seconded the motion and it carried.

OLD BUSINESS:

Elery was introduced as the new Treasurer by Presidential appointment, due to the illness of Larry Murray.

Ed Myers, Bill Gardner and Kathleen Myers are the Nominating Committee. Those finishing their terms of office are Ernest Michaud, Larry Murray and Ed Myers. Nominations will also be accepted from the floor.

A Constitutional rewrite is scheduled for the fall.

New Business:

Gem & Minerals requested our membership list to send each member a free copy of the magazine. Harold Rice made a motion, "To mail the membership list with the understanding it be used for that particular purpose only." Ed Myers seconded the motion and it carried.

The Club was presented excerpts of Bill HR1783. The Guild will be asked to lobby against the bill that would require anyone selling or purchasing gemstones or finds, must be kept with the receipt for one year. We will write as a Guild and hobbyists to let it be known we vote against it.

Harold Rice made a motion, "That the Guild write a letter to Mr. Hertell stating opposition to the bill and that as hobbyists it is impractical." Ed Myers seconded the motion and it carried unanimously. Harold will write a letter from the Guild, one from the Mt. Clemens Recreation Center and one from himself. All members will be urged to do so, also. Bill will be in the next bulletin.

President Horton explained the new "request for checks" to be used by Elery Holt as Treasurer.

The Guild received a "Thank You note and \$50 from the Wisconsin Geological Society for setting up the booth at the Federation Show. \$35 and a Thank You Note was received from Chicagoland Show and \$30 and a Thank You Note from the Cincinnati Show.

Ilona Wiser will be paid \$25 for her services for planning the bus trip that was cancelled.

Bernard Bush made a motion, "That Guild Members should be paid gas mileage over fifty miles for official functions, such as, setting up booths and seminars at Shows by Board approved representation." Bernard resented the motion and after discussion a new motion was made by Bernard Bush, "For Guild approved seminars the drivers would received 20¢ per mile for a round trip." Dorothy Loyd seconded the motion and it carried unanimously.

A booth and seminar will be set up at South Bend in July of 1986 for the combined AFMS and MWFS Show and for the AFMS Show in Charleston, West Virginia.

Harold Rice made a motion, To accept the invitation to have a booth and conduct a seminar at Sioux Falls, South Dakota for the 1985 Midwest Federation Show." Ted Engle seconded the motion and it carried.

Ed Myers made a motion, "To have a booth and conduct a seminar at the National show in Charleston, West Virginia." Harold Rice seconded the motion and it carried.

Harold Rice made a motion, "To attend the AFMS and MWFS show at South Bend in July of 1986." Ed Myers seconded the motion. A letter of acceptance will be mailed.

David Miller will facet a large heart shaped Blue Topaz to be used for the raffle in honor of Mother's Day at the Show.

BOARD MEETING (cont'd)

Discussion was held on establishing the "Murray Award" in honor of Larry and Helen Murray for all the benefits they contributed for improvement of the Guild. Dorothy Loyd made a motion, "To establish the "Murray Award" as a perpetual trophy and a personal plaque to be given for Outstanding Contributions to the Guild". Harold Rice seconded the motion and it carried unanimously.

Ed Myers made a motion, "The Murray Award" be presented at the annual meeting and the recipient be selected by the Board from nominations presented by the members". Dorothy Loyd seconded the motion and it carried unanimously.

Ted Engle made a motion, "That a Media Package be prepared for release to local newspapers for seminars and Shows." Dorothy Loyd seconded the motion and it carried 8-0. Ted Engle will prepare the press release.

The President of the Texas Faceters Guild sent a letter suggesting that our Guild pins denote the degree of our faceting abilities, such as novice to the ten steps of becoming a Master Cutter. Advancements to be made by using the standard format for judging stones. Pros and cons were discussed, but no decision was reached.

Dorothy Loyd suggested using the theme, "Homecoming for New and Old Faceters" for the Annual Meeting. The Board will meet at 9:00 AM at Mt. Clemens Recreation Center, October 27th. The regular meetings will begin about 10:00 AM and the Program at 1:00 PM.

A moment of Silence was observed in memory of Dr. James Thompson and George Westcott. Both will be fondly remembered by their friends of the Guild.

Harold Rice presented a Show Budget. Each item was discussed. Papers from Helen Murray were picked up so they could proceed with her Show Plans. Notices had been sent to magazines, buildings are rented, pink Show Fliers printed and Twenty-two dealer contracts have been mailed. Fourteen retail and eight demonstrating dealers will be used. Dealers will pay \$275, plus \$50 for requested extra tables. Demo dealers will pay \$100. This is two more dealers than last year so a change of floor plans will be necessary.

Glenn and Martha Vargas have been secured as speakers by paying their plane fare. Joe Tisdall will pay their hotel accommodations, personally.

The head of the new GIA Project, Bill Boyajian will speak for \$250, plus motel and plane fare. Dave Miller will speak on Beginning Faceting and Kent Kales on Polishing Gemstones. Rules have been mailed and four judges will be invited.

David Miller made a motion, "To accept the budget of \$8,650 as presented by "Arizona" Rice." Dorothy Loyd seconded the motion and it carried 8-0.

Meeting adjourned at 11:45 AM through a motion made by Dave Miller and seconded by Arizona Rice.

Respectfully submitted,
Bernard Bush, Secretary.

REGULAR MEETING

August 25, 1984 - Lizzadro's Museum, Elmhurst, Illinois.

President Horton welcomed all those present and explained the bulletin was published thirty days prior to the meeting. The date of the Annual meeting has been changed to October 27th.

Harold Rice made a motion, "To accept the minutes as read." Elery Holt seconded the motion and it carried.

President Horton introduced our new Treasurer, Elery Holt. Mr. Holt reported a balance of \$4,409.46 and with expenses and receipts we had a new balance of \$5,357.46. He will have an indepth report at the Annual Meeting.

Education Chairwoman, Dorothy Loyd reports registration for the annual meeting would start at noon and the meeting, "Homecoming for the New and Old Faceters" would begin at 1:00 PM. The business of the day would be the election of officers and speaker, Tom Smith, diamond cutter, will speak on "Comparison of cutting diamonds and gemstones." An Auction of Larry Murray's collection of faceting rough will be held for the benefit of the Guild, after the program.

Historian, Vivian Randall was enjoying a visit to China, so no report.

Kathleen Myers, Rules Chairman, explained the class of the prescribed cut. The table of the heart is to be 35%, but no exact size

REGULAR MINUTES (cont'd)

is specified. The indexing error is corrected in the new issue.

Featured displays for the Show will be diamond replicas and antique amethyst jewelry from Cleveland Museum of Natural History; past Trophy Winner, Al Luchini; Glenn and Martha Vargas (needs cases 244 inches, inside measurements); Arthur Grant; Ernest Cornish; Joe Tisdall; Gary Kocher displaying the large gem cuts made by the Faceteers of Toledo Gem & Rockhound Club; hopefully, Dr. Thompson's Trophy winning case from the Wisconsin Midwest Federation Show; Russ Kemp's faceted Airplanes; Reis Elwood's \$20,000 Emerald and a display from Bill Cox, AFMS President.

President Horton explained the publicity package to be prepared by Ted Engle for press release for local Shows.

Editor, Helen Murray passed away, August 29th so the Guild is in need of a new Editor. Bill Gardner was suggested for the post.

Harold Rice reporting on the Show related that Kathleen Myers is contacting dealers. Three contracts have been returned. There will be fourteen dealers and eight demonstrating dealers.

The budget was discussed, naming rent \$1650, Security \$1200 as the largest expenditures. A total budget of \$8,650 was submitted. Dealers will pay \$275, with an additional \$50 per requested table, demonstrating dealers will pay \$100 for their booths.

Advanced ticket selling will be a MUST for the success of the Show. All Committee Chairmen will be appointed by the October meeting.

A proposal was made to accept the budget as presented. All agreed and the budget was accepted.

David Miller will facet a large heart of Blue Topaz for the raffle as a tribute to Mothers at the show. Ralph Whitney will facet an aquamarine set in gold.

A packet of complete Show information will be mailed to each member.

Harold Rice, "Thanked Kathleen and her Committee for getting the plans off the floor."

President Bill Horton reported our

membership was approaching 400. Chairman, Art Kalinski, was absent. Members were at the Midwest Federation Show in West Allis, Chicagoland and Cincinnati.

President Horton related the Board's approval to have a booth and seminars at the Midwest Federation Show in Sioux Falls, South Dakota; Charleston, West Virginia for the American Federation and for the combined AFMS and MWFS at South Bend, Indiana in July of 1986. Three or four different machines and displays are needed along with material to be passed out.

New memberships help groups locate other faceters in the area get together to discuss and solve their problems.

No Old Business:

A moment of Silence was offered in memory of Dr. James Tompson and George Westcott, Charter Member and original Board of Directors.

President Horton explained the "Murray Award" and the regulations of presenting it to the worthy recipient. There will be a perpetual award and a small trophy for the individual qualifying. The recipient will be selected by the Board of Directors and presented at the Annual Business Meeting to the person contributing the most to the Guild.

Paul Rascarda is asking faceters in the area of DeMott, Hammond, Griffith and Gary to get together to organize a satellite group of faceters.

Harold Rice made a motion to adjourn. The motion was made by Dave Miller and carried.

Russ Kemp welcomed the Guild Members to the Museum and thanked Al Luchini for bringing his fabulous display of gemstones to the Museum for the Guild to enjoy.

A slide program of "Gem Faceting as a Precise Art" as done by Walter Kean was presented. Walter Kean was a self-taught faceter and became a renowned faceter. He volunteered to cut gem rough for the Field Museum that had been donated from the 1893 World's Fair. A duplicate of the program is available to the Guild upon request.

The Guild sends our most sincere "Thank You" to Russ Kemp and Lizzadro's for a most enlightening program.

Respectfully submitted,
Bernard Bush, Secretary.

Kenyon V. Painter
Post Office Box Q
Scottsdale, Arizona 85252
U. S. A.

I really enjoyed cutting river-run topaz until a faceter told me all about the cleavage plane in topaz. My troubles started when I had a large rectangular crystal of dark-blue topaz rough. The shape of the rough was ideal to facet an emerald cut stone. For the best recovery there was only one place on the crystal to place the table. While performing the crystal, it started to cleave on the small ends of the rectangular preform. I had no intention of cutting the stone in half and trying to make two stones by putting the table at the ends of the rectangular preform.

I looked at my problem for three days trying to decide how to make a cut of eight to fifteen degrees off the ends of the rectangular preform. At last it came to me...a simple solution to my problem.

I was using a 96 tooth index gear on my faceting machine. The teeth on a 96 tooth gear are 3.75 degrees apart. I set my index gear on 3, and made my first cut on the long side of the preform. By setting my index gear on 3 instead of 96, it gave me an angle of 11.25 degrees off the cleavage plane.

My next step was to release the dop from the chuck and to set my index gear back to 96. I then realigned my stone for the 96 setting and tightened the chuck. This saved my large table, and I was no longer cutting on any cleavage plane. The operation was so simple that I wondered why it took me so long to think of the solution.



Come Join Us!

THE RAFFLE DEPENDS ON YOU !

Will everyone that promised door prizes for the raffle to be held at the Annual Faceters Guild Meeting, October 30, 1984, at Mt. Clemens Recreation Center, please see that your prizes are finished and sent to the Chairmen one month prior to the raffle to insure their availability as needed.

Thank you for your promptness and your generous donations.

To those of you that have not returned your tickets, PLEASE DO SO, as time is growing short. Either the tickets or the money must be returned. If purchasing or selling the tickets, please be sure the stubs are in for the drawing..

Thank you for your co-operation,
BERNARD and FRANCES BUSH
931 Bricker Ave.
Toledo, Ohio 43608

GOOD NEWS FOR THE SHOW PROGRAMS!!!!

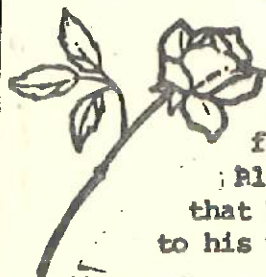
We are pleased to announce that Mr. Bill Boyajian, from G.I.A., will give us a program next May. This will be another high light of our show.

Mr. Boyajian is the Manager of New Project Development at G.I.A. He was appointed to this position in October, 1983. He was formerly Supervisor of G.I.A.'s Resident Colored Stones and Gem Identification Program.

Mr. Boyajian will give three programs on Saturday, May 11, 1985.

- (1) The Wide Variety of Colored Stones.
- (2) Gem Identification.
- (3) Inclusions

Don't miss your chance to take in these special programs. Hat's of to our program Chairperson, Dorothy Loyd. (10,000 ATTA BOY'S)



In loving memory of Dr. James Thompson. He joined Toledo Gem & Rockhound Club in April of 1978, became interested in faceting, joined the Midwest Faceters Guild and made a name for himself by wining numerous Federation and Local Show First Place Awards and Trophies. His absence will be felt by all that knew and loved him. We wish to express our deepest sympathy to his wife, Dorothy and his son David.

TID - BIT
#7
W. J. HORTON

Every machine has good points and some have some bad qualities. We are all somewhat like machines. No accessory for a machine is quite perfect either.

This tid-bit will help, hopefully, in the cutting of the table of your gem stone.

To cut a good table, it must be cut parallel to the girdle. If the table is not parallel, the symmetry of the crown facets will vary. Sometimes, viewing the gem from the side view, it is evident that the table is cut on a slant.

First, let's understand that most machines vary, ever so slightly in run-out of the lap, thickness of laps, lap to base of machine, and even the compound of using the handpiece to the shaft. In figure #1, the height h and h_1 indicates the run-out of the lap. If you would swing an arc at A, B, D and D in figures #1 and #2, you would probably be very surprised at the difference. Most machines have some method of reducing this run-out by adjustments.

Now, let's assume that all run-outs and misalignments are minimized. You still need the "PERFECT" 45° offset. This also may need to be "LAPPED" to the plate at 45° to be perfect. It's really not necessary to do this. Make a simple fixture from a dop, with a pencil or scribe. This can be used with your 45° offset. Since we sometimes use charcoal on the finish lap, a pencil mark won't hurt it. Just scribe an arc. Adjust the height and cheater mechanism to achieve a good circle. Personally, I don't like to scribe on my lap with anything. This can be done on a piece of paper on the lap or a piece of paper and carbon paper. When the perfect circle is achieved, lock the height and cheater controls, insert the dop with your gem stone and cut the table.

An even easier method is to use a simple .001 inch "feeler" gauge stock. Install the 45° offset at 45° , lower until it touches the lap (figure #3), release the locking control, and use the height and cheater control until the .001 inch stock has the same "feel" from all four corners. (See figure #4). Once this is complete, lock all controls, raise, insert the dop and gem stone, lower and cut the table to desired width.

In every case, take care not to misalign the 45° offset when inserting the cop and gem stone, since this requires side torque when tightening the lock on the dop and gem stone.

I sincerely hope this little hint will help you to achieve better success in cutting.

Have a good day. Cut a good gem stone.

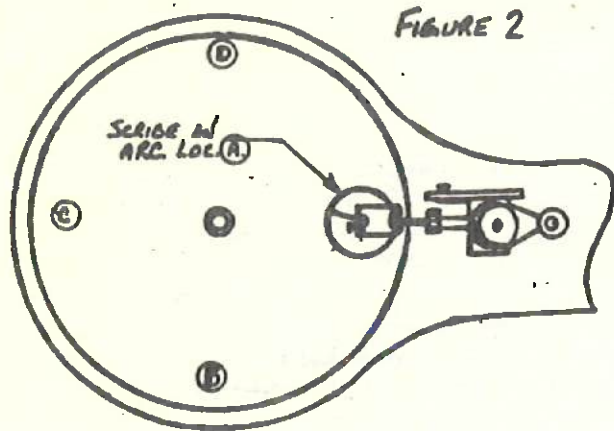


FIGURE 2

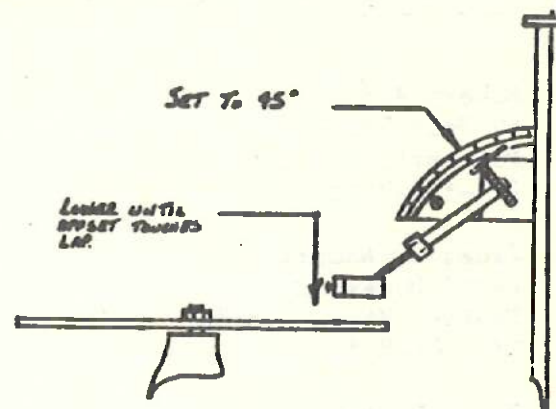


FIGURE 3

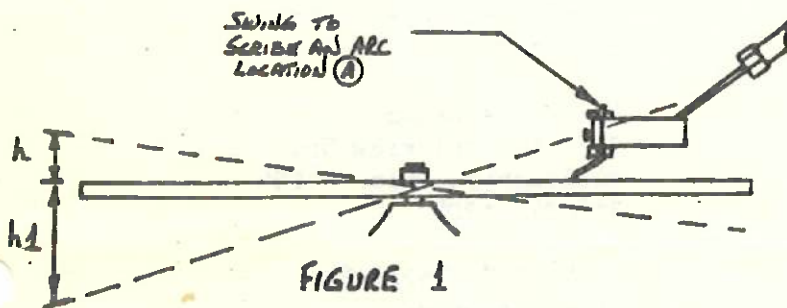


FIGURE 1

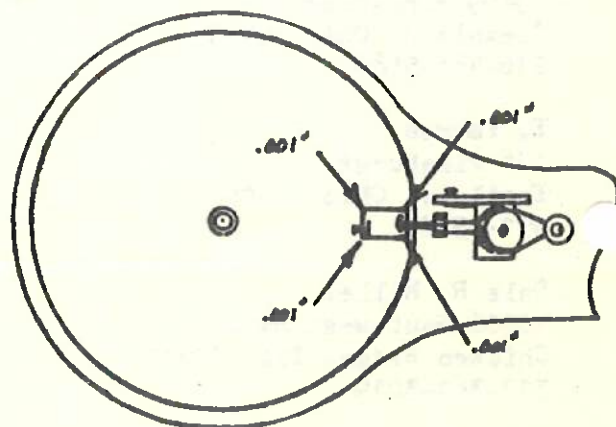
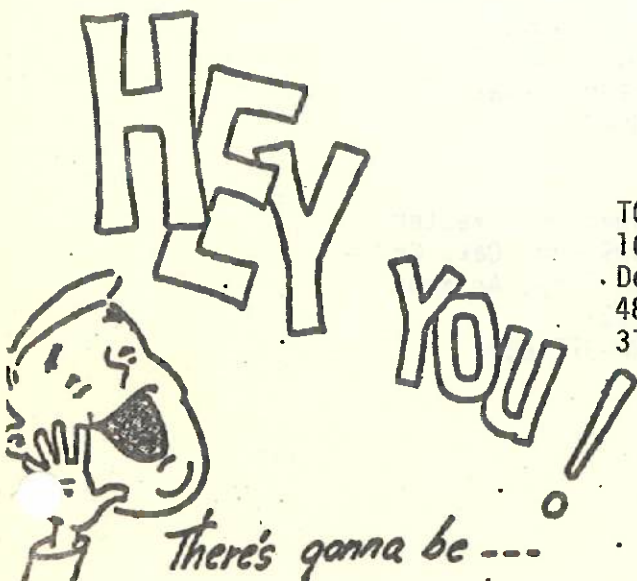


FIGURE 4

FOR SALE!!!!!!

TOM SMITH
1626 May Ave.
Dearborn, Michigan
48124
313-277-3151

Tom has a complete DIAMOND cutting bench, and assorted tools necessary for cutting DIAMONDS, including laps.



MORE NEW MEMBERS - ADD TO YOUR DIRECTORY

Robert Alden
57 Golf Drive
Painesville, Ohio 44077
216-354-3118

James T. Andres
24242 Rosewood
Taylor, Mich. 48180
313-946-8284

Ray Balester
2460 Edgehill Road
Cleveland Heights, Ohio 44106
216-932-5376

Wayne DiCenzi
19409 Arrowhead
Cleveland, Ohio 44119
216-481-5681

E. Ferree
171 Pinehurst
Eastlake, Ohio 44094
951-5317

Dale R. Miller
10506 Southwest Hwy.
Chicago Ridge, Ill 60415
312-361-3019

Jerome J. Zielaski
30401 Mildred St.
Willowick, Ohio 44094
944-4879

Roy J. Pasini
5873 Park Ridge Dr.
N. Olmsted, Ohio 44070
216-777-4195

Jerry Sarik
5952 Yorktown Lane
Youngstown, Ohio 44515
216-792-0314

Robert M. Shaw
6012 Elmarge Dr.
Independence, Ohio 44131
216-524-8446

Roy J. Smith
2019 Treadway Ave.
Cleveland, Ohio 44109
392-4841

Livia Stefansson
9770 Mountainview Dr.
Willoughby, Ohio 44094
216-942-1204

Richard F. Vergiels
11193 Secor Rd.
Temperance, Mich. 48182
313-856-1749

Clement Gabriele
27124 Merideth
Warren, Michigan
48092
313-574-9135

M. J. Immel
P.O. Box 545
Llano, Texas
78643

Betty Vetter
9309 Glen Oaks Cr. N.
Sun City, Arizona.
85351
602-977-6036

Edward R. Vetter
9309 Glen Oaks Cr. N.
Sun City, Arizona
85351
602-977-6036

Since I've been attending programs, seminars and gem and mineral shows, one of the most frequently-asked questions is, "How do I get started faceting?" The following is a list of basic items required for a beginner:

1. Machine
2. Laps (disc)
3. Diamond Dust
4. Lamp or light
5. Faceting Material
6. Magnifying Glass or Lens
7. Instructor

1. Buy the best machine you can afford. It should have an electronic stop on it or be able to have an electronic stop put on it. A preformer should be available for the machine. It is definitely preferred that the machine will be able to chart height and angles and also has a cheater or radial dial adjuster. There are a lot of machines on the market, but I would rather not recommend any particular brand.

2. In our classes, we use the three-lap method. First is the 600 grit diamond plated lap. Next is a copper lap charged with 3,000 grit. Last is the ceramic lap.

3. Diamond dust is used to charge the ceramic lap. My preference is Italdo (made in Saginaw, Michigan), a spray diamond dust in 100,000 grit for the ceramic lap. For the copper lap, I use an industrial strength 3,000 diamond paste.

4. Since faceting is seeing, it is important to choose the proper light. Select a swivel, adjustable arm light with a clear bulb. The goose-neck type is not as suitable, since it cannot be placed exactly where needed. It may be necessary to add an extension to lift the light up to clear the machine.

5. Our beginning students use synthetic corundum because it is less costly and produces a beautiful, hard stone when finished. With modern technology, diamond dust and diamond wheels, the synthetic corundum cuts almost as easily as quartz and is available in practically every color.

6. A good magnifying glass is necessary. I prefer a corrected triplet lens magnifier as faceting is 85% looking and 15% cutting.

7. The most important aspect of faceting is a good instructor--one who is experienced and enthusiastic. The instructors have made all the mistakes you'll probably make and will guide you to keep you from making those same mistakes. Even with their help, you will still make mistakes.

When the Midwest Faceters Guild members renew their memberships, we are asking them to indicate whether they would be willing to help someone in their area or to be an instructor. The updated list will so indicate in order for you to see if there is someone in your area who could help you, the beginner. When you talk to this individual, ask about his/her preference of machines. It will be easier for both of you to be working with the same (or similar) kind of equipment. There is also the possibility of buying a used faceting machine for beginning. My last point is that if you have any problems, please write to the President. If he can't help you, he will find someone who can as that is the purpose of the Guild--to help beginning faceters.

WEDDING ANNIVERSARY STONES

- 1st: Peridot (from outer space)
 2nd: Garnet, red pyrope (good cheer)
 3rd: Jade in rich colors, carved (knowledge)
 4th: Zircon, blue (generosity)
 5th: Kunzite (fair skies)
 6th: Turquoise, green (safe travels)
 7th: Beryl, golden (riches)
 8th: Tanzanite (the newest, bluest gem)
 9th: Spinel, green (peace)
 10th: Sapphire, blue (tranquility)
 11th: Jacinth (yellow Zircon) (mysteries of the East)
 12th: Opal (changing moods)
 13th: Hawk's-eye (future foreseen)
 14th: Bloodstone quartz (strong heart)
 15th: Alexandrite, green & red (good fortune)
 16th: Spinel, ruby red (victory)
 17th: Carnelian, quartz (bravery)
 18th: Aquamarine (safety at sea)
 19th: Carbuncle (almandine garnet) (Noah's floodlight)
 20th: Diamond, golden (wealth)
 21st: Tourmaline, red-violet (vigor)
 22nd: Sapphire, pink (magical power)
 23rd: Jade, green or blue jewels (power)
 24th: Hyacinth zircon (romance)
 25th: Garnet, green demantoid (joy)
 26th: Tigereye (a guard against evil)
 27th: Agate and Onyx quartz (willfulness)
 28th: Moonstone (mystery)
 29th: Topaz, blue (pure thoughts)
 30th: Pearl (faithfulness)
 31st: Amethyst (protection from wine)
 32nd: Morganite, pink beryl (long life)
 33rd: Garnet, star (passion)
 34th: Jasper quartz (rainmaker)
 35th: Emerald, green (health)
 36th: Topaz, clear (favor)
 37th: Chrysoberyl, chartreuse yellow (midsummer)
 38th: Sapphire, star (fame)
 39th: Zircon, blue (kindness)
 40th: Ruby, red (gem of the sun)
 41st: Jade, translucent white (wisdom)
 42nd: Turquoise, robin's egg (sky) blue (pride)
 43rd: Coshenite, clear beryl (insight)
 44th: Sardonyx quartz (dignity)
 45th: Cat's-eye beryl (forewarns against sorrow)
 46th: Spinel, golden (honor)
 47th: Diamond, pink (fearlessness)
 48th: Zircon, transparent (justice)
 49th: Sapphire, transparent (faith)
 50th: Topaz, golden (love)
 55th: Tourmaline, green (springtime)
 60th: Ruby, star (hope)
 65th: Spinel, blue (heaven's blessings)
 70th: Topaz, smokey brown (quiet)
 75th: Diamond, blue (spirit)

EXHIBITOR TIPS

by Kathleen Myers

Plan your exhibit early.
 Decide what you are going to display and then consider the case, color, texture of liners, light, etc.

All cases should have ventilation (heat can be very damaging to your precious gems!) Be sure to cover the openings with plastic screening to keep out the insects.

The type of light you use is very important and differs with the material you are displaying. Faceted materials show best when banks of clear lights are used. Use white light to assure true colors. If the ceiling of your case is white it will provide better light dispersment. Special effects can sometimes be obtained by trying foil or mirrors placed to reflect the light back.

Do all the good you can,
 By all the means you can,
 In all the ways you can,
 In all the places you can,
 At all the times you can,
 To all the people you can,
 As long as ever you can.

HOMEcoming MEETING

OCTOBER 27th

BE THERE!!!

FACETS

Grinding, Polishing and sometimes not polishing

Firstly an introduction: I am about 74 years old with a background in micro-technique, biology, philosophy and the great depression of the thirties and am now retired. I live in a mobile home of generous size in a rural, rural community about forty miles west of Milwaukee, Wisconsin. About the loudest noise heard here at dusk is some crazy cricket or bull frog whooping it up. From the highest nearby hill no other faceter can be seen for a thousand miles!. I have a small, inadequate machine shop, use an Ultra Tec faceting machine, and like to do what works best no matter what my wife or mother told me.

All the following is based on purchasing two laps from the Alpha Faceting Company. These laps, made by Nu-Bond are 600 and 1200 mesh diamond. They really do a good job but I came to the conclusion that they loaded up a little too quickly and eventually stopped cutting well. I tried cleaning with my favorite Scotch-Brite pad and detergent and they would resume cutting but again load up rather quickly with stone debris. Jet Dry was added to the water supply (Jet Dry is an automatic dishwasher wetting agent containing nonionic surfactants) with slight improvement. One day, in semi-desperation, I added a little soluble oil (found in machine shops) to my cutting water. To my surprise, the laps cut cleaner and finer, and also the time between cleaning was extended considerably.

Soluble oil looks like a motor oil, but when it is added to water, a milky emulsion is formed. I have been using one ounce of soluble oil mixed with one gallon of water. This dilution may not be the ideal, but it is a good ratio to try. I suspect even a greater dilution would be fine. In the article that follows, this soluble oil water mixture will be termed SO.

This experience with the laps led to testing other ways in which SO could improve the quality of my life. I have obtained some results which, to me, take some of the peril out of producing a well polished facet.

Several laps and a variety of polishing compounds have been tried on a number of different stones. The compounds used are Linde A and B, cerium oxide and diamond. Except for diamond, the polishing agent, approximately 1/8th teaspoon (0.4 gram) is added to four ounces of SO, shaken well, and kept shaken (shook?) during use. My suspensions are kept in four ounce, plastic squeeze bottles that have a small tip like a nasal spray container.

The SO emulsion is also used to fill the water tank on the machining (without any polishing agent) and allowed to drip at about one to four drops per second. The prepared polishing agent suspension in SO is added, say three or four drops, and the facet applied to the lap. I believe what I am trying to say is that you use small amounts of polishing agent and try to keep the amount small by both controlling the tank flow and the added suspension. I think that too much polishing agent causes scratching and does not speed up the job. Also, that water alone is a poor carrier as it flies off the lap and takes the agent with it. The SO stays on the lap, retaining the polishing agent better than water, so you simply do not have to add large amounts of agent. There seems to be considerable latitude in amounts, but it is probably better to lean toward skimpiness with the polishing agent.

The soluble oil costs about \$10.00 per gallon in the undiluted form. The type used is WS-11 and is supplied by the Wholesale Tool Co. in Warren, Michigan. Also, you can ask your friendly neighborhood machine shop to sell you a few ounces to try out.

The simple tests here described next are strictly personal evaluations and should be verified by others. Generally, SO in water alone has improved diamond lap grinding and SO and polishing compounds offer the possibility of easier, faster, scratch free facet polishing.

But things may not always be perfect, even in paradise. It was noticed that sometimes a facet will polish beautifully and then a small scratch will appear just as you are about to finish. I found that then if you give the cheater or the angle control the finest of adjustments, so that the scratched part of the facet is moved microscopically toward the lap, the scratch will often disappear. My belief is that the facet is barely touching the lap at the scratch point and polishing powder accumulates, forming a small lump and is able to pass under the facet. The lap speeds used have been about 300 to 500 rpm.

It also seems that the pressure of holding the stone to the lap is not as great as when using water alone as a carrier. On sapphire, I do not know since I have not tried it. Also try SO in water alone on ceramic laps with diamond spray as it can be controlled better than extender lube and you have a better cooling effect from the high water content. Again, other dilutions, either greater or less, should certainly be tried in all aspects of SO usage.

The following tables are presented to show the general results obtained. They are not certain gospel. Also there are many combinations of laps, stones, polishing agents not yet tried. Comes December and January when the snow is deep and it is -35°F more trials will be made. Now the crab grass awaits.

TABLE NO. 1

<u>Tin Lap, 6 inch, newly lathe turned and scored with knurling tool</u>				
Quartz No.	<u>Cerium oxide in SO</u>	<u>Cerium oxide in water</u>	<u>Linde A in SO</u>	<u>Linde A in water</u>
1	Good polish Fairly quick	- - - - -	Slow. No scratches	Slow. Scratched badly.
2	Same as No. 1	Slow. Some grooving (channels)	- - - - -	- - - - -
3	- - - - -	Slow. Fair polish Less grooving	Slow, trace of scratching	Slow, some scratches.
<u>Lucite Lap, scored with knurling tool</u>				
4	<u>Cerium oxide</u> Good polish. Fast, no scratches.	<u>Linde A in SO</u> Slow, scratched badly		

TABLE NO. 2 - All polishing agents in SO

<u>Stone</u>	<u>Lap</u>	<u>Polishing Agent</u>	<u>Results</u>
Tourmaline	Type-Metal	Cerium oxide	Fine
Opal, Mex. Cherry	Lucite	Cerium oxide	Fine
Citrine	Lucite	Cerium oxide	Fine
Quartz, Syn. Russian	Lucite	Cerium oxide	Fine
Beryl, Yellow	Type-Metal	Cerium oxide	Slow but good
Beryl, Yellow	Lucite	Cerium oxide	Faster than Type M - good
Beryl, Yellow	Tin	Cerium oxide	Faster than lucite - good
Beryl, Yellow	Tin	Linde A	Very fast, good
Beryl, Yellow	Type-Metal	Linde B	Very fast, good
* Beryl, Yellow	Ceramic	- - - - -	Fast, Good
Tourmaline	Type-Metal	Linde A & B	Good, Linde A quicker
Opal, Mex. Cherry	Type-Metal	Linde A	Good
Apatite, Mex. Yellow	Phenolic	See enclosed worksheet	
* Beryl, Yellow.	This ceramic lap had been used with 100,000 diamond spray. It was placed on the spindle and with <u>only</u> a slow drip of SO, (<u>no</u> new diamond added). It polished very well.		

114 APATITE, DURANGO, MEX. YELLOW

BARION

9.1mm square

4.47 cts. fin. wt.

Culet 42.0°
96 index

Crown 36°

Cutting steps as for #111, except the crown angle was 36° to try to decrease table size. As it is, the table is still almost 6mm square! So?

Apatite should be approached with caution!

- (1) It is brittle. This stone was chipped on 2 corners after cutting.
- (2) It is soft and grinds rapidly on 325 grit.
- (3) Leave plenty to pre-polish on the finest lap.
- (4) Polishing can be a trial.

Pavillion: Started polishing on typemetal C Linde A. Smaller facets went pretty well. A few scratches which were worked out.

The table was terrible. Tried tin, typemetal, phenolic (even lucite), and the facet became really torn up with heavy scratches and deep pits. Tried all sorts of combinations of laps with Linde A, B, Cerium oxide, 100,000 diamond (on phenolic). Nothing! Worse and Worse! Agony! Had to regrind the table. Now surprise luck. The phenolic lap had one side that had been used with 14,000 diamond. This was put on the machine and a slowish drop of soluble oil emulsion added. Applied facet and it rather readily attained a good polish. *No scratches. No new diamond was added. Finished entire crown with this polish method. O.K. Brilliant Stone.

* Enough 14,000 diamond remained in lap to give a good polish without adding any more. Cerium oxide scratched very badly. Lucite was eroding.

109 QUARTZ, BLUE, SYN. RUSSIAN

ECED 1:40 - 2 - 1

Rough cost \$2.75 6.77 cts. 96 index 13.56mm X 9.765mm

For instructions see Long/Steele, Vol. 4, page C-11

Transfer was not good. Had to use cheater too much. Pavillion cut perfectly. Polished easily! Table polished well. A very brilliant stone.

Again polished on Lucite with cerium oxide in suspension in 1:150 soluble oil and water. Very slow drip of same dilution on lap. Polishing rapid with NO scratches whatever.

As far as I know this Lucite lap has had only Linde A and cerium oxide used on it. It was "scored" with sknurling tool years ago. Polishing is very quick, clean with no scratching. Can it be that the use of the soluble oil emulsion is responsible for this result?

Soluble oil from Wholesale Tool Co., Warren, Mich. Type Cutzol - WS 11.

Dilute 1:100/1:150. Used in grinding with very fine laps 1200 etc. helps prevent lap from "build-up" and seems to give a better finish on the facet.

Submitted by : Warren Morrison
78 Warbler Way
Hidden Meadows
Watertown, Wi 53094



BEAUTIFUL GREEN VESTS AVAILABLE !

Cost: Vests \$13.52
 Embroidery 6.03
 Total \$ 19.55

Sizes: X-small (30-32)
 Small (34-36)
 Medium (38-40)
 Large (42-44)
 X Large (46-48)

Cost: Quilt Jackets

Jacket \$27.56
 Embroidery 6.03
 Front Name & Tax
 Total \$36.00

Sizes: Small (34-36)
 Medium (38-40)
 Large (42-44)
 X-Lg. (46-48)

If members wish to sew their own vests they can be embroidered for \$6.03. Or a patch of the same emblem is \$6.03. Orders will be taken care of by Kathleen Myers, 11630 S. Gera Rd. , Birch Run, Mi. 48415. (517) 624 9178)

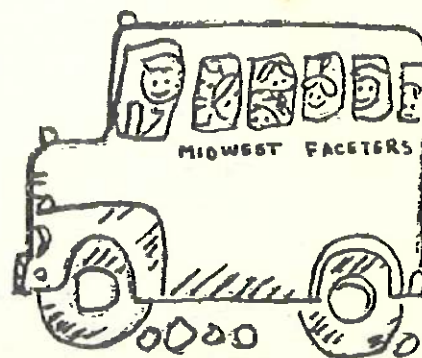
GREAT!

A GREAT TRIP !!

The Guild trip to the Lazzadro and Field Museums was really great !

Russ Kemp and the Lazzadro staff rolled out the red carpet and the group enjoyed a great program, beautiful exhibits and gracious hospitality.

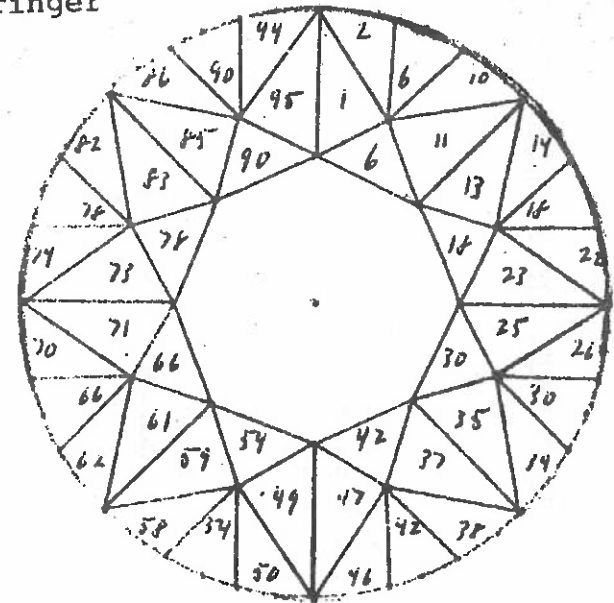
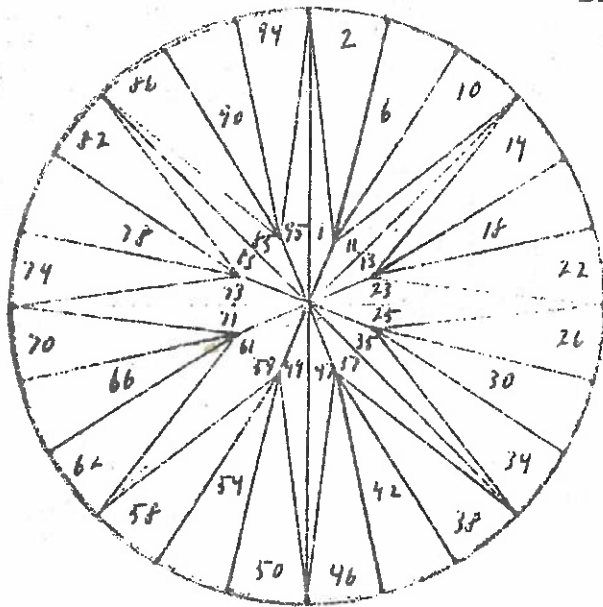
A very special faceting exhibit was the highlight of this visit- a dazzling display by Gus Lucini (one of our members). Gus has agreed to bring his beautiful exhibit May 11&12 to Maumee, Ohio for our 3rd. Faceters Fair Gem & Jewelry Show. Don't miss his spectatular show of gemstones!!!



Our group was dissappointed when the gem portion of the Field Museum in Chicago was "closed for renovation" but each person found many great exhibits to enjoy and everyone agreed it will be great to go back for another visit when the "new" gem exhibit opens!
 Great Exhibits+ Great Folks+ Great Fun = A GREAT TRIP !!!

BRILLIANT BRILLIANT

by Bob Springer



A modified brilliant with split mains and fanned breaks.

96 index

Angles for corundum

	Pavilion				
Mains	42°	95-1	11-13	23-25	35-37
		47-49	59-61	71-73	83-85
Breaks	43°	94-2	10-14	22-26	34-38
		46-50	58-62	70-74	82-86
Fan					
Breaks	44°	6	18	30	42 54 66 78 90

	Crown				
Mains	37°	95-1	11-13	23-25	35-37
		47-49	59-61	71-73	83-85
Stars	22°	6-18-30-42-54-66-78-90			
Breaks	39°	94-2	10-14	22-26	34-38
		46-50	58-62	70-74	82-86
Fan Breaks	41°	6-18-30-42-54-66-78-90			

OCTOBER 27th ANNUAL MEETING

ROUND _ UP _ TIME

9:00 BOARD MEETING

9:00 "PROBLEM CORRAL" with BILL SCHELL conducting the morning
workshop- bring your ailing machines.

11:30 CHUCK WAGON LUNCH BREAK

12:00 REGISTRATION

1:00 ANNUAL MEETING & ELECTION

SPECIAL PROGRAM: "DIAMOND FACETING"

TOM SMITH, DIAMOND FACETER

DON'T FORGET WE WILL HAVE OUR 1984 RAFFLE DRAWING AT THIS TIME.

ALSO WE WILL HAVE AN AUCTION OF LARRY MURRAY'S SUPER SPECIAL ROUGH.

WESTERN DRESS IS OPTIONAL BUT COME AND ENJOY OUR MIDWEST HOSPITALITY!

SATURDAY, OCTOBER 27th

Mt. Clements Community Center- lower level

300 North Groesbeck

in Mt. Clemens

